HYDROBIOLOGICAL JOURNAL

VOLUME 27

CONTENTS FOR 1991

Number 1

A.I. Azovskiy: Taxonomic Relationships, Morphological and Ecological Similarities of Marine Psammophilous Ciliates 1
A.R. Aliyev: New Data on *Paramecium* Ciliates (Hymenostomatida) from Natural Water Bodies of Azerbaijan 13
A.V. Kornyushin: Taxonomic Revision and Phylogeny of the Genus *Euglesa* s. lato (Bivalvia, Euglesidae) 17
R.Ya. Margulis: Does the Species *Erenna bedoti* (Siphonophora, Physonectae) Exist? 30
A.V. Vinogradov: An Addition to the Bryozoan Fauna (Bryozoa, Phylactolaemata) in the Vicinity of Moscow 35
B.Z. Kaufman: Some Features of the Preferential Behavior of the Terrestrial Slug, *Deroceras reticulatum* 39
Ye.P. Turpayeva: Pycnogonida Collected on the Pacific Slope of Honshu 43
V.V. Pirogov, V.A. Fil'chakov, T.D. Zinchenko, M.I. Karpiuk, and L.V. Edskyi: The New Elements in Benthic Fauna of the Reservoirs of the Volga-Kama Cascade 53
G.A. Kolbasov: *Acasta pertusa* sp. n. (Cirripedia, Thoracica) from the Red Sea 59
A.V. Chesunov: Cephalic Cuticular Structures in Some Free-Living Nematodes from the Superfamily Monhysteroidea (Chromadoria, Monhysteroidea). Communication 1 62
M.I. Kiseleva: On the Absence of Pelagic Polychaete Larvae in the Black Sea 69
A.Ye. Antsulevich and Ya.I. Starobogatov: First Record of a Nudibranch Mollusk (Tritoniiformes) in the Caspian Sea 71
Z. Izzatulayev, V.S. Salimov, and A. Nurallayev: A New Record of the Freshwater Mollusk *Melanoides kainarensis* (Gastropoda, Melanoididae) 75
L.A. Prozorova: Reproductive Biology of the Pachychilidae (Gastropoda, Cerithiiformes) 77
R.I. Aliyev: Ecology and Biology of *Gammarus matienus* (Crustacea, Amphipoda) in the Waters of Azerbaijan 91
R.K. Kudinova-Pasternak: Tanaidacea (Crustacea, Malacostraca) from the Pacific Ocean Nasca ridge 95

Number 2

A.F. Alimov: Basic Principles of the Functional Theory of Aquatic Ecosystems 1
A.P. Sadchikov and A.S. Kulikov: Transformation of Organic Secretions of Phytoplankton by the Bacterial Community 12
T.A. Chekryzheva: Horizontal Variations in the Degree of Aggregation of Freshwater Planktonic Algae 17
G.V. Kuz'min, G.A. Agapova, and N.G. Susekova: Phytoplankton and Chemical Composition of the Water of Jack London Lake (Magadan Oblast) 23
V.N. Shubina and V.G. Martynov: Drift of Benthic Invertebrates in Salmon Streams of the Northern European USSR during the Period of Ice Cover 30
T.N. Tarasova, A.G. Okhapkin, G.V. Shurganova, Yu.N. Razgulov, and A.A. Kravchenko: Comparison of Two Systems for Water-Quality Evaluation 35

HYDROBIOLOGICAL JOURNAL

VOLUME 27

CONTENTS FOR 1991

Number 1

A.I. Azovskiy: Taxonomic Relationships, Morphological and Ecological Similarities of Marine Psammophilous Ciliates 1
A.R. Aliyev: New Data on *Paramecium* Ciliates (Hymenostomatida) from Natural Water Bodies of Azerbaijan 13
A.V. Kornyushin: Taxonomic Revision and Phylogeny of the Genus *Euglesa* s. lato (Bivalvia, Euglesidae) 17
R.Ya. Margulis: Does the Species *Erenna bedoti* (Siphonophora, Physonectae) Exist? 30
A.V. Vinogradov: An Addition to the Bryozoan Fauna (Bryozoa, Phylactolaemata) in the Vicinity of Moscow 35
B.Z. Kaufman: Some Features of the Preferential Behavior of the Terrestrial Slug, *Deroceras reticulatum* 39
Ye.P. Turpayeva: Pycnogonida Collected on the Pacific Slope of Honshu 43
V.V. Pirogov, V.A. Fil'chakov, T.D. Zinchenko, M.I. Karpiuk, and L.V. Edskyi: The New Elements in Benthic Fauna of the Reservoirs of the Volga-Kama Cascade 53
G.A. Kolbasov: *Acasta pertusa* sp. n. (Cirripedia, Thoracica) from the Red Sea 59
A.V. Chesunov: Cephalic Cuticular Structures in Some Free-Living Nematodes from the Superfamily Monhysteroidea (Chromadoria, Monhysteroidea). Communication 1 62
M.I. Kiseleva: On the Absence of Pelagic Polychaete Larvae in the Black Sea 69
A.Ye. Antsulevich and Ya.I. Starobogatov: First Record of a Nudibranch Mollusk (Tritoniiformes) in the Caspian Sea 71
Z. Izzatulayev, V.S. Salimov, and A. Nurallayev: A New Record of the Freshwater Mollusk *Melanoides kainarensis* (Gastropoda, Melanoididae) 75
L.A. Prozorova: Reproductive Biology of the Pachychilidae (Gastropoda, Cerithiiformes) 77
R.I. Aliyev: Ecology and Biology of *Gammarus matienus* (Crustacea, Amphipoda) in the Waters of Azerbaijan 91
R.K. Kudinova-Pasternak: Tanaidacea (Crustacea, Malacostraca) from the Pacific Ocean Nasca ridge 95

Number 2

A.F. Alimov: Basic Principles of the Functional Theory of Aquatic Ecosystems 1
A.P. Sadchikov and A.S. Kulikov: Transformation of Organic Secretions of Phytoplankton by the Bacterial Community 12
T.A. Chekryzheva: Horizontal Variations in the Degree of Aggregation of Freshwater Planktonic Algae 17
G.V. Kuz'min, G.A. Agapova, and N.G. Susekova: Phytoplankton and Chemical Composition of the Water of Jack London Lake (Magadan Oblast) 23
V.N. Shubina and V.G. Martynov: Drift of Benthic Invertebrates in Salmon Streams of the Northern European USSR during the Period of Ice Cover 30
T.N. Tarasova, A.G. Okhapkin, G.V. Shurganova, Yu.N. Razgulov, and A.A. Kravchenko: Comparison of Two Systems for Water-Quality Evaluation 35

S.Ye. Plekhanov, I.L. Al'-Sal'man, and M.M. Telitchenko: Effect of Sulfate on Growth and on the Efficiency of Primary Photosynthetic Processes in a Culture of *Scenedesmus Quadricauda* 41
V.N. Kozitskaya: Alteration of Phytoplankton Growth Conditions 48
G.Ye. Shul'man and Y.V. Yuneva: Docosahexaenoic Acid and the Degree of Unsaturation of Lipids in Fish 56
M.S. Galina: Biochemical Changes in the Hemolymph of the Black Sea Mussel on Exposure to Toxic Agents 64
A.I. Korableva and T.N. Kovtun: Evolution of Hydrochemical Conditions in Small Steppe-Zone Reservoirs of the Dnieper Region 69
A.V. Siderskiy: Attenuation of Photosynthetically Active Radiation by Lagoon Waters of the Northwest Black Sea Coastal Zone 78
Ye.N. Tsaplina: Variations in the Biomass of *Potamogeton perfoliatum* and *Myriophyllum spicatum* in the Dnieper-Donbass Canal 84
A.A. Nebrat: Planktonic Infusoria in Kakhovka Reservoir 89
K. Vasternak and S.A. Ostroumov: Effect of Aquatic Pollution by the Detergent Bio-S on Euglenas 92
N.P. Finogenova and L.N. Snimshchikova: *Dagarobdella zelenskiji*, a New Genus and Species of Fish Leech (Piscicolidae) from Lake Baikal 95

Number 3

A.A. Makarov, A.P. Sadchikov, and V.N. Maksimov: Production of Algae of Various Size Groups and Secretion of Dissolved Organic Matter by the Phytoplankton Community 1
N.A. Davidovich: Vertical Distribution of Phytoplankton in the Soviet Section of the Danube and in Sasyk Reservoir 6
V.V. Polishchuk: New Information on the Zooplankton of Lake Nobel 11
V.N. Ryabova and V.B. Pogrebov: Biological Seasons in Zooplankton of the Gulf of Finland 19
A.P. Morev: Macrobenthos of the Profundal Zone of Lake Jack London 26
V.V. Ten: Biological Characteristics of Mysids in Visla Bay (Baltic Sea) 34
V.V. Bogatov: Growth and Production of Amphipods in Rivers of the Southern Maritime Region (Soviet Far East) 43
T.G. Moroz: Leeches of the Dnieper-Bug Estuarine Ecosystem 51
N.P. Zhemayeva: Production of the Aquatic Sow Bug, *Asellus aquaticus*, in Pond Culture 59
A.A. Kovalchuk, L.V. Skorik, and V.P. Shadrina: Rate of Aerobic and Anaerobic Decomposition of Organic Matter in Shallow-Water Bottom Sediments of Kremenchug Reservoir 64
L.I. Kititsyna and L.Ya. Kurovskaya: Physiological and Biochemical Changes Induced in Carp by Ectoparasites 74
V.I. Karamushka, Z.R. Ul'berg, T.G. Gruzina, A.S. Dukhin, and S.B. Buriyev: Response of Chlorella Cells in Energized State to Tetrachloraurate 82
N.I. Varenko, N.I. Zagubizhenko, and Yu.K. Gaydash: Role of Benthos in the Migration of Microelements in Zaporozhye Reservoir 90
N.A. Potapova and T.V. Korolevskaya: Method of Determining the Biomass of Bacterial Cells 96

Number 4

M.Yu. Galina: Growth of Far Eastern Herbivorous Fishes in Lake Katlabukh... 1
O.P. Kirilyuk: Age Structure and Growth of White Bream (*Blicca bjoerkna*) in Kremenchug Reservoir 6

A.N. Tyurin: Behavioral Reactions of the Scallop, *Mizuhopecten yessoensis*, and the Mussel, *Crenomytilus grayanus*, to Reduced Salinity and Oxygen and Exposure to Synthetic Detergents 13
G.S. Surova: Effect of Predators on *Rana arvalis* Larvae in Nature 20
I.S. Plotnikov, N.V. Aladin, and A.A. Filippov: The Past and Present Aral Sea Fauna 33
A.V. Kornyushin: New Species of Euglesidae (Bivalvia, Pisidioidea) from the Dnieper River Basin 45
Yu.V. Korzun and D.O. Alekseyev: Taxonomic Position of the Squid, *Loligo singhalensis* (Cephalopoda, Loliginidae) 52
M.A. Valovaya: A New Parasitic Rotifer, *Albertia ovagranulata* sp. n. (Dicranophoridae), from the Intestine of the Oligochaete *Enchytraeus albidus* from the White Sea Sublittoral 58
N.N. Najdenova and A.V. Gajevskaya: *Kudoa mirabilis* sp. n. (Mixosporidea, Multivalvulea) from Ribbonfish of the Indian Ocean 66
L.N. Snimschikova: Two New Species of the Genus *Baikalodrilus* (Oligochaeta, Tubificidae) 69
A.S. Karpov, A.V. Gudkov, and M.A. Marinich: Diversity of Invertebrates Containing Green Symbiotic Algae in the Inland Lakes of Valamo Island 74
M.Ye. Vinogradov and G.M. Vinogradov: Amphipods Caught with a Bottom Trap on Nasca Ridge 81
Ye.A. Ivanyushina: Size Variability of *Metopelloides shoemakeri* (Crustacea, Amphipoda, Stenothoidae) from the North Pacific and Its Conspecificity with *M. dubia* 88
A.F. Alimov: Seasonal and Long-Term Changes in the Biomass of Zoobenthos in Inland Waters 92
Ye.Yu. Chernina and A.I. Startseva: Effect of Fine Suspended Matter on Marine Hydrobionts 101

Number 5

V.Ya. Zaika and N.G. Sergeyeva: Diurnal Variations in Population Structure and Vertical Distribution of the Ctenophore *Mnemiopsis maccradyi* in the Black Sea 1
A.Yu. Karatayev and R.I. Karatayeva: Some Patterns of the Vertical Distribution of Macrozoobenthos in the Littoral Zone of Cooling Ponds of Coal-Fired Power Plants 7
I. Ergashboyev: Rational Fishery Utilization of Reservoirs of Mountain Rivers of Tajikistan: The Case of Nurek Reservoir 16
V.A. Abakumov: Hydrobiological Monitoring of Surface Waters 23
V.N. Maksimov: Integrated Quality Evaluation of Natural Waters: Ecological Aspects 29
V.I. Lavrik, A.I. Merezhko, C.A. Sirenko, and V.M. Timchenko: Ecological Capacity and Its Quantitative Evaluation 34
B.I. Flerov and V.T. Komov: Evaluation of Ecological Condition of Water Bodies under Human Impact 44
V.G. Il'ichev: Possible Ecosystem Alterations in the Sea of Azov as a Result of Climatic Change 52
F.B. Shkundina: Classification of Phytoplankton in Terms of Size and Morphology 65
G.A. Karpova, A.Ye. Yaroshevich, and V.L. Gilman: Effect of Present-Day Water Conditions in the Dnieper River on Overgrowth of Floodplain Waters in Its Estuarine Zone 71
A.A. Koval'chuk: Structural Stability of Communities (as Exemplified by Benthic Infusoria) and Criteria for Evaluation 75

V.V. Arkhipchuk, V.D. Romanenko, L.S. Kipnis, and Yu.G. Krot: Nucleolar Activity of an Inhomogeneous Group of Juvenile Grass Carp 85
A.V. Chaykovskaya and S.A. Davidenko: Protein and Carbohydrate Composition of Mantle Secretions of the Freshwater Mussel *Unio* 90
T.B. Bilyk: Seasonal Variations of Liver Adenine Nucleotide Levels in Fish 96
O.F. Filenko: Practical Guidelines for Aquatic Toxicology 102
S.A. Patin: Ecotoxicological Aspects of Water Quality Monitoring and Study of the Aquatic Environment 105

Number 6

M.V. Mikhaylova: Effect of Water-Soluble Fraction of Ust-Balyk Petroleum on the Early Ontogeny of the Sterlet (*Acipenser ruthenus*) 1
V.A. Zhorov, S.G. Boguslavskiy, and V.P. Ronkova: Distribution of pH in the Black Sea 12
V.N. Samoylenko: Influence of Precipitation on Oxygen Conditions in the Dnieper-Bug Lagoon 17
N.V. Druzhkov: A Method for Storing Marine Skeletal Protozoan Microplankton 25
A.V. Lyashenko: Size and Body Weight of Bivalves from Sasyk Reservoir 27
R.I. Meliyan: Effect of Pesticides on Reproductive Function of the Freshwater Amphipod *Gammarus kischineffensis* 33
T.A. Kharchenko: The Concept of Ecotones in Hydrobiology 37
N.A. Davidovich: Relationship between Phytoplankton Production per Unit Area and the Coefficient of Vertical Light Attenuation in Water 44
A.A. Nebrat: Planktonic Infusoria of Kanev Reservoir 50
A.N. Kruglova: Zooplankton of the Lake-and-River System of the Umba River (White Sea Basin) 55
Kh.Kh. Khaitov, I.I. Ibragimov, and E.O. Omorov: Diet of Juvenile Fishes in Nayman Reservoir 63
I.A. Gorovin: Role of Black Sea Mussels in the Elimination of Allochthonous Bacteria from the Marine Environment 71
A.G. Nedosekin, G.A. Dallakyan, V.N. Maksimov, and V.D. Myatlev: Combined Effect of Nitrogen and Phosphorus on Lipid Content of an Algal Population 77
N.B. Zagornaya, G.N. Nikovskaya, S.M. Fedorik, and L.I. Globa: Adhesion of Algae to Synthetic Fibers 81
V.V. Grubinko: A Review of the Role of Glutamine in Maintaining Nitrogen Homeostasis in Fishes 86
A.P. Myl'nikov: Ultrastructure and Biology of Certain Representatives of the Order Spiromonadida (Protozoa) 97
Contents for 1991 108